QC ABSTRACT

NAME OF WORK: Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency

L NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
5	PCC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	18.64	6	6
6	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
7	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
8	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-31-42** **Date: 12-01-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	_
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-31-42** **Date: 07-02-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	10-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-31-42** **Date: 12-01-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-31-42** **Date: 12-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.50	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.28	_
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Date: 12-01-23

Lab ID	:	**CP-2023-03-31-42**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-31-42** **Date: 12-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

30/09/2023

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2023-03-31-42** **Date: 12-01-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-03-31-42** **Date: 12-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2023-03-31-42** **Date: 13-01-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-31-42** **Date: 13-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2023-03-31-42**	**Date: 16-01-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency	
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21	
Date of Receipt	:	09-01-23	
Sample Type/ Size	:	Ceramic tiles (300X600)mm	
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018	
Date of test	:	09-01-23	

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	600	600	6.04	6.01	6.08	6.04
2	300	300	600	600	6.01	6.07	6.01	6.01
3	300	300	600	600	6.03	6.05	6.06	6.03
4	300	300	600	600	6.06	6.05	6.08	6.06
5	300	300	600	600	6.08	6.06	6.05	6.08
6	300	300	600	600	6.03	6.07	6.07	6.07
7	300	300	600	600	6.08	6.05	6.08	6.07
8	300	300	600	600	6.02	6.05	6.04	6.05
9	300	300	600	600	6.04	6.04	6.02	6.04
10	300	300	600	600	6.04	6.01	6.05	6.04
Average	**300**		**600**		**6.05**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	600	6.04	14.8	14.66
2	300	600	6.06	14.2	
3	300	600	6.02	14.9	
4	300	600	6.06	14.8	
5	300	600	6.05	14.6	

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2023-03-31-42** **Date: 13-01-23**
Project Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
Date of Receipt	:	09-01-23
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	09-01-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	202	16403	32.814	2000.5	2013.6	Not less than 1800Kg/m^3
2	403	202	203	16525	32.752	1981.9		
3	399	200	199	15880	32.691	2058.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	202	202	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
2	403	201	200	
3	404	203	199	
4	404	202	201	
5	402	200	199	
6	403	201	199	
7	401	203	203	
8	399	203	201	
9	401	200	203	
10	402	203	200	
11	403	202	201	
12	401	201	199	
13	402	203	203	
14	402	203	200	
15	401	202	199	
16	400	203	201	
17	400	201	203	
18	402	201	201	
19	402	202	203	
20	404	200	200	
Average of 20	**402**	**202**	**201**	

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COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80750	332.4	4.1	4.1
2	403	201	80882	340.9	4.2	
3	404	203	81750	339.5	4.2	
4	404	202	81775	337.7	4.1	
5	402	200	80657	338.0	4.2	
6	403	201	80840	334.9	4.1	
7	401	203	81299	333.6	4.1	
8	399	203	80931	334.8	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2023-03-31-42 **Date: 30/01/2023**
ject Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
ncy	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
tomer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
of Receipt	:	25-01-23
omer ID	:	PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	30/01/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M20	23/01/2023	30/01/2023	150.91 X 151.78 X 149.49	22904	8.208	414.4	18.1	18.1
PCC	M20	23/01/2023	30/01/2023	150.59 X 150.09 X 150.53	22602	8.387	409.3	18.1	
PCC	M20	23/01/2023	30/01/2023	149.87 X 150.84 X 151.72	22606	8.439	411.7	18.2	

results obtained are satisfactory as per standard requirements.

30/01/2023

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2023-03-31-42 **Date: 20/02/2023**
ect Name	:	Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency
ıcy	:	Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
omer's Reference	:	EE(Project)/Ynk Zone/WO/173/2020-21
of Receipt	:	25-01-23
omer ID	:	PCC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	20/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M20	23/01/2023	20/02/2023	149.27 X 151.63 X 149.41	22633	8.672	523.8	23.1	23.1
PCC	M20	23/01/2023	20/02/2023	150.01 X 150.93 X 149.41	22641	8.387	507.0	22.4	
PCC	M20	23/01/2023	20/02/2023	150.50 X 149.74 X 150.53	22536	8.691	533.3	23.7	

results obtained are satisfactory as per standard requirements.

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tomer ID	:	PCC
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ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	30/01/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M20	23/01/2023	30/01/2023	150.05 X 150.86 X 151.99	22638	8.943	427.5	18.9	18.8
PCC	M20	23/01/2023	30/01/2023	151.67 X 151.91 X 149.45	23039	8.846	427.7	18.6	
PCC	M20	23/01/2023	30/01/2023	149.97 X 151.98 X 149.52	22793	8.965	432.0	19.0	

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30/01/2023

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ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	20/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M20	23/01/2023	20/02/2023	149.50 X 149.41 X 149.61	22336	8.515	516.6	23.1	22.9
PCC	M20	23/01/2023	20/02/2023	151.32 X 149.64 X 150.71	22642	8.255	504.2	22.3	
PCC	M20	23/01/2023	20/02/2023	151.02 X 151.37 X 149.71	22860	8.946	534.2	23.4	

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te of test : 30/01/2023

l. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	PCC	M20	23/01/2023	30/01/2023	149.11 X 152.00 X 149.90	22664	8.873	408.2	18.0	
	PCC	M20	23/01/2023	30/01/2023	151.30 X 149.39 X 151.62	22603	8.782	420.8	18.6	18.5
	PCC	M20	23/01/2023	30/01/2023	151.78 X 151.75 X 150.77	23032	8.633	434.1	18.8	

e results obtained are satisfactory as per standard requirements.

30/01/2023

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-31-42**

Date: 20/02/2023

Project Name : Construction of Additional floor to existing Library at Vidyaranyapura Ward no.09 in Byatarayanapura Assembly Constituency

Agency : Sri. S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/173/2020-21

Date of Receipt : 25-01-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	23/01/2023	20/02/2023	149.60 X 151.38 X 150.80	22646	8.960	530.6	23.4	23.3
2	PCC	M20	23/01/2023	20/02/2023	150.34 X 150.13 X 151.06	22570	8.541	516.7	22.9	
3	PCC	M20	23/01/2023	20/02/2023	150.22 X 151.86 X 149.63	22813	8.565	536.5	23.5	

The results obtained are satisfactory as per standard requirements.

30/04/2023

A.E.E. (Project)

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